

THE ALLOCATION OF CHANNELS TO WIRELESS LANS

ABSTRACT OF THE DISCLOSURE

Channels are allocated to one or more cells within a wireless LAN (WLAN) without causing unacceptable interference. The allocation involves dividing an allocation time period into frames, each frame having a substantially short duration, and then allocating one or more

5 channels to one or more WLAN cells during each such frame according to an allocation vector. The vector assures that each cell allocated a channel is sufficiently distant from every other cell allocated the same channel to minimize cross interference. Only those cells allocated a channel are allowed to transmit during a given frame.

10 The allocation vectors are determined in such a way that the performance of a WLAN is optimized.